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**ABSTRACT**

An optoelectronic dust collecting machine and system are provided. The machine includes a streamlined structural body; and a draft fan, an electric motor, a circuit board, an electronic circuit element, a switching push button, an indicating lamp, an opening for carrying and lifting the optoelectronic dust collecting machine, an externally mounted extendable handle, a plurality of extreme ultraviolet ray transmitting tubes, a filter screen, a re-chargeable battery, a power input line, a transparent transmitting mirror, a garbage box body, and an externally mounted movable vacuum cleaner. The system includes an electronic circuit system, and an extreme ultraviolet ray transmitting tube that produces a circuit for starting ultraviolet rays of 253.7 nanometer wavelength.